

## WHAT IS CLAIMED IS:

1. A device according to the invention to block and unblock in a non-invasive manner the rotation between two first (1) and second (2) parts implanted in the organism wherein:

- o first blocking surfaces (11) bound to the said first part (1),
- o second blocking surfaces (21) bound to the said second part (2),
- o at least one blocking part (3):
  - which comprises third blocking surfaces (31), able to cooperate with the said first blocking surfaces (11) which are bound to the said first part (1) and the fourth blocking surfaces (32), able to cooperate with the said second blocking surfaces (21) bound to the said second part (2), and
    - capable, when both the said first (1) and second (2) parts are at a particular angular position, of passing from a first free state in which both the said first (1) and second (2) parts are free to rotate relative to one another, with at least one of the said third (31) and fourth (32) blocking surfaces of the said blocking part being free from the blocking surfaces (11, 21) of that of the said first (1) and second (2) parts with which they can cooperate, to a second blocked state in which the said first (1) and second (2) parts are prevented from rotating relative to one another by means of the said first (11) and third (31) blocking surfaces firstly, and of the said second (21) and fourth (32) blocking surfaces secondly, and vice-versa to pass from the said second blocked state to the said first free state.
- o means (411, 412, 413, 421, 422, 431, 432) defining between the said first (1) and second (2) parts a cavity sealed against the surrounding materials which includes at least the said first (11) and second (21) blocking surfaces and the volume swept by the said blocking part (3) when it moves between the said first free state and the said second blocked state, and vice-versa,

o means to impart rotation in one direction and in the other from outside the organism to the said first and second parts relative to one another.

2. A device according to the first claim wherein at least one blocking part (3) comprises at least one element on which a magnetic field is able to exert a force.

3. A device according to the first or second claim wherein the said means defining between the first and second parts a cavity sealed against the surrounding materials comprise at least one flexible conduit (411) bound at one of its ends to the said first part (1) and at the other of its ends to the said second part (2).

4. A device according to any one of claims 1 to 3 wherein it also comprises means (51, 52) to hold at least one blocking part (3) in at least one of the said first free state and second blocked state.

5. A device according to any one of claims 1 to 4 wherein the means to impart rotation in one direction and in the other from outside the organism to the two said first (1) and second (2) parts comprise means to link to at least one bone segment.

6. A device according to any one of claims 1 to 5 wherein the means to impart rotation in one direction and in the other from outside the organism to the two said first and second parts comprise means placed in the soft tissues.

7. A device according to any one of claims 1 to 6 wherein the means to impart rotation in one direction and in the other from outside the organism to the two said first and second parts comprise elastic means.